

CLAIMS

What is claimed is:

1. A method for the treatment of metallic materials, especially for the consolidation of the texture of metallic materials, comprising the steps of:

- a) providing a blank of a metallic material,
- b) heating said blank to a transformation temperature and
- c) deforming said blank by twisting said blank about a longitudinal axis thereof.

2. A method according to claim 1, wherein said blank is compressed during said twisting in the direction of said longitudinal axis.

3. A method according to claim 2, wherein said compression step is performed by subjecting said blank to a constant force.

4. A method according to claim 2, wherein said compression step is performed by subjecting said blank to a constant deformation speed.

5. A method according to claim 1, wherein said blank is heated over its full length for the consolidation of the texture thereof.

6. A method according to claim 1, wherein only the area of said blank is heated where the deformation is to be performed.

7. A method according to claim 1, wherein said blank is heated by electrical induction heating.

8. A method according to claim 1, wherein the deformation of said blank is performed at a temperature of about 1000°C.

9. A method according to claim 1, wherein the deformation of said blank is performed at least partially under a protective gas cover.

10. A body of titanium aluminide having a texture obtained by heating a blank of a metallic material and deforming the blank by twisting under compression.

11. A body of titanium aluminide according to claim 10, wherein the titanium aluminide has the composition

Ti - 47 Al - 4.7 (Nb, Cr, Mn, Si) - 0.5 B.